


<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p><b>INFORMATION DISCLOSURE STATEMENT</b></p> </div> <div style="text-align: right;"> <p>ATTORNEY DOCKET NO: 022002-03</p> <p>APPL. NO. 10717,046</p> </div> </div>											
<div style="display: flex; justify-content: space-between;"> <div> <p>APPLICANT David Lush et al.</p> </div> <div> <p>FILING DATE Nov. 19, 2003</p> </div> <div> <p>GROUP 3672</p> </div> </div>											
U. S. PATENT DOCUMENTS											
*Exam. Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE					
<div style="font-size: 2em;">T</div>	AA	3 2 5 2 4 3 9	05/24/1966	Shatto, Jr. et al.	114	257					
	AB	3 6 0 2 7 0 1	08/31/1971	Boyd, Jr.	700	36					
	AC	3 6 0 8 6 3 0	09/28/1971	Wooden et al.	166	357					
	AD	3 6 4 3 7 3 6	02/22/1972	Talley, Jr.	166	356					
	AE	4 0 4 6 1 9 1	09/06/1977	Neath	166	352					
	AF	4 1 4 9 6 0 3	04/17/1979	Arnold	175	7					
	AG	4 2 9 1 7 7 2	09/29/1981	Beynet	175	5					
	AH	4 5 2 7 6 3 2	07/09/1985	Chaudot	166	357					
	AI	4 5 7 7 7 0 0	03/25/1986	Dellinger et al.	175	40					
	AJ	4 6 5 1 8 3 6	03/24/1987	Richards	175	62					
<div style="font-size: 2em;">M</div>	AK	4 8 4 8 4 7 5	07/18/1989	Dean et al.	166	357					
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	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION					
<div style="font-size: 2em;">P</div>	AL	2 2 6 0 0 8 7	04/07/1993	UK			Yes	No			
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)											
<div style="font-size: 2em;">N</div>	AM	Strand, B. and Bakke, W., "Subsea Separation on the Troll Field," <u>Scandinavian Oil-Gas Magazine</u> , July 8, 1998, pp. 122-124.									
	AN	Baggs, C., Kent, I., and Allen, John, "Troll Pilot Control System: Advanced Control System for a Subsea Separator," Offshore Technology Conference (OTC) 12154, May 1-4, 2000, pp 1-10.									
	AO	Arnold, K.E. and Ferguson, P.L., "Tomorrow's Compact Separation Train," <u>Hart's E&amp;P</u> , December 1999, pp. 80-82.									
	AP	Fjósne, E., "Subsea Processing – Maximising Value in Areas With Existing Infrastructure," Offshore Technology Conference (OTC) 14008, May 6-9, 2002, pp. 1-5.									
	AQ	Eriksen, S., "How Can Subsea Processing Remove Topsides Processing Constraints," FMC Energy Systems, FMC Kongsberg Subsea, August 30, 2001, 11 pages.									
	AR	Davalath, J. "Economic Benefits of Compact Subsea Separation System," FMC Energy Systems, Deep Offshore Technology 1999, 14 pages.									
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*Exam. Initial		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE		
⑩	BA	4	9	0	0	4	3	3	02/13/1990	Dean et al.	210	170			
	BB	4	9	8	2	7	9	4	01/08/1991	Houot	166	357			
	BC	5	1	2	9	9	3	1	07/14/1992	Oranje	55	399			
	BD	5	1	6	4	7	4	1	10/13/1992	da Costa Filho	96	157			
	BE	5	4	8	8	9	9	3	02/06/1996	Hershberger	166	372			
	BF	5	7	0	7	4	2	7	01/13/1998	Stockman et al	95	260			
	BG	5	7	2	2	4	9	4	03/03/1998	Landeck et al.	175	7			
	BH	6	0	0	4	3	8	5	12/21/1999	Birmingham	96	174			
	BI	6	0	6	2	3	1	3	05/16/2000	Moore	166	357			
	BJ	6	0	6	8	0	6	3	05/30/2000	Shaw	166	267			
⑪	BK	6	2	1	6	7	8	1	04/17/2001	Knight	166	105.5			
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	BL														
<b>OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)</b>															
⑫	BM		Songhurst, B.W. and Eyre, G.P., "Experience Gained From the First U.K. Subsea Separator," Offshore Technology Conference (OTC) 6423, May 7-10, 1990, pp. 43-50.												
	BN		Smith, J.R., "The Highlander Field: Eight Years On," Offshore Technology Conference (OTC) 7438, May 2-5, 1994, pp. 177-187.												
	BO		Crook, J. "Seabed Separation First for Troll," Petroleum Review, March 1999, pp. 31-32.												
	BP		"SUBSIS: Subsea Separation and Injection System," ABB Offshore Systems, ABB Oil, Gas & Petrochemicals, (undated), 4 pages.												
	BQ		"Subsea Separation and Injection by ABB's SUBSIS," ABB Offshore Systems, <a href="http://www.abb.com/oilandgas">www.abb.com/oilandgas</a> , August 1999, 3 pages.												
⑬	BR		Davalath, J., Wessel, J., and Hatlo, A., "State of the Art in Subsea Pumping Technology," FMC Energy Systems, November 7-9, 2000, 11 pages.												
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*EXAM!al if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and <u>not</u> considered. Include copy of this form with the next communication to applicant.															

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(12)	CA	6	2	7	6	4	5	5	08/21/2001	Gonzalez	166	357			
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	CB														
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(2)	CC		"Helico-Axial Multiphase Pump, Deepwater Technology," Multiphase, Guinard Pumps, Textron Fluid Handling Products, May 1989, 12 pages.												
	CD		Technical Bulletin, "Increased Oil Production by Means of Subsea Processing," Framo Engineering AS, Bergen, Norway, January 1999, 4 pages.												
	CE		Technical Bulletin, "Boosting - Increased Oil Production and Recovering Utilizing: Multiphase Pumps, Subsea Separator - SWAG," Framo Engineering AS, Bergen, Norway, November 1999, 4 pages.												
	CF		Technical Bulletin, "Subsea Multiphase Pumps for Shell, Draugen," Framo Engineering AS, Bergen, Norway, May 1999, 4 pages.												
	CG		Technical Bulletin, "Framo Subsea Multiphase Booster Pumps for BP ETAP," Framo Engineering AS, Bergen, Norway, April 1999, 4 pages.												
	CH		"Subsea Multiphase Pump," Kvaener Eureka a.s., Lier, Norway, (undated), 6 pages.												
	CI		Technical Bulletin, "Increased Oil Production by Means of Subsea Multiphase Boosting," Framo Engineering AS, Bergen, Norway, November 1999, 4 pages.												
	CJ		Rekve, S., "Fourth-Quarter Seafloor Pump Demo Set," Hart's E&P 5 <sup>th</sup> Deepwater Technology (undated), p. 31.												
	CK		"Multiphase Booster Pumps Provide Efficient Production Tool," Hart's E&P 5 <sup>th</sup> Deepwater Technology, (undated), p. 32.												
	CL		Bradbury, J., "Pumping Up the Volume," Hart's E&P, October 2001, p. 29.												
	CM		"Hydraulic Turbine Drive Submersible Centrifugal Pumps," Weir Pumps, November 2001, pp. 1-2.												
(3)	CN		Harden, W.G. and Downie, A.A., "Field Trial and Subsequent Large-Scale Deployment of a Novel Multiphase Hydraulic Submersible Pump in Texaco's Catina Field," Offshore Technology Conference (OTC) 13197, April 30-May 3, 2001, pp. 1-19.												
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